

What is claimed is:

1. A mobile communication terminal provided with a hands-free function comprising:

5 a key inputting means for inputting an operational command of a mobile communication terminal;

a microphone for inputting a user's voice message;

a display unit for displaying an operational state of the mobile communication terminal;

10 a speakerphone for outputting a calling party's voice outside in a hands-free mode; and

a control means for setting a calling mode according to the user's voice message, searching the calling party's name or telephone number according to the user's voice message and thereby voice-guiding through the speakerphone,  
15 and switching a calling path through the speakerphone to an earphone at the time of setting a secret calling.

2. The terminal of claim 1, wherein the control means comprises:

a voice-guiding function for searching originating party's information from  
20 a mounted telephone directory and outputting the search result by voice when a calling request message from an arbitrary originating party is received;

a voice-dialing function for searching calling party's information inputted by a user's voice from the mounted telephone directory and outputting the search result by voice; and

25 a voice command function for recognizing a calling command such as a

calling connection, a calling finishing, and etc.

3. The terminal of claim 1, wherein the control means sets and releases a hands-free function or a secret calling function by a specific key adjustment by the key inputting means.

4. The terminal of claim 1, wherein the control means sets and releases a secret calling function by a user's voice command.

5. A controlling method of a mobile communication terminal provided with a hands-free function comprising the steps of:

setting a hands-free function of a mobile communication terminal;

certifying whether an originating call command or a calling request message are received;

searching information of a calling party inputted by a user's voice or an arbitrary originating party's information from a mounted telephone directory; and

voice-guiding the searched calling party's information or originating party's information and then connecting a calling.

6. The method of claim 5, wherein the calling party's information and originating party's information are calling party's or originating party's names or telephone numbers .

7. The method of claim 5, further comprising a step of setting a secret calling function for switching a calling path from a speakerphone to an

earphone in the step of setting the hands-free function.

8. The method of claim 7, wherein the secret calling function is set by a user's specific key input or a voice command.

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9. A controlling method of a mobile communication terminal provided with a hands-free function comprising the steps of:

setting a hands-free function of a mobile communication terminal;

switching a calling path to a speakerphone and certifying whether a user's

10 voice command for originating a calling exists;

searching inputted calling party's information and voice-guiding when the user's voice command is inputted; and

connecting a calling to the calling party's telephone number and outputting the calling party's voice to the speakerphone.

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10. The method of claim 9, further comprising a step of setting a secret calling function for switching a calling path from a speakerphone to an earphone in the step of setting the hands-free function.

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11. The method of claim 9, wherein the voice-guiding step comprises:

waiting for a voice input of calling party's information when a voice command for originating a calling is certified;

searching a mounted telephone directory when the calling party's information is inputted by voice;

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voice-guiding a search result and then certifying the search result is right

information when the calling party's information is searched; and

connecting a calling to a corresponding telephone number when a user's voice that the search result is right information is inputted.

5           12.     The method of claim 11, wherein the calling party's information is a name of the calling party.

13.     The method of claim 11, further comprising a step of requesting an input of the calling party's telephone number when the calling party's information is  
10   not searched.

14.     The method of claim 11, further comprising a step of returning to a waiting process for inputting the calling party's information by voice when the user's voice that the search result is not right information is inputted.

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15.     The method of claim 11, wherein corresponding information is sequentially guided by voice when plural calling parties are searched in the step of certifying whether the search result is right information.

20           16.     The method of claim 11, further comprising:  
requesting different identification information when plural calling parties are searched; and

re-searching corresponding identification information at the search result when calling party's identification information has been inputted by voice in the  
25   step of certifying whether the search result is right information.

17. The method of claim 11, wherein the step of connecting a calling comprises:

certifying whether the calling party's telephone numbers which have been  
5 judged as right information are plural;

voice-guiding each telephone number sequentially when the plurality of  
telephone numbers have been searched and certifying right information; and  
connecting a calling to the certified telephone number.

18. A controlling method of a mobile communication terminal provided  
10 with a hands-free function comprises the steps of:

setting a hands-free function of a mobile communication terminal;

switching a calling path to a speakerphone and certifying whether a calling  
request message from an arbitrary originating party is received;

15 searching originating party's information, then voice-guiding, and certifying  
whether a calling is allowable when the calling request message has been  
received; and

connecting a calling with the originating party and outputting the  
originating party's voice to the speakerphone when a user's voice command for a  
20 calling allowance has been inputted.

19. The method of claim 18, wherein the originating party's  
information is a telephone number.

20. The method of claim 18, further comprising a step of setting a  
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secret calling function for switching a calling path from a speakerphone to an earphone in the step of setting the hands-free function.

21. The method of claim 18, wherein the step of certifying whether a  
5 calling is allowable comprises:

obtaining originating party's information when a calling request message has been certified;

checking whether the obtained originating party's information has been registered in a mounted telephone directory;

10 voice-guiding the search result and certifying whether a calling is allowable; and

connecting a calling when a voice command for a calling allowance has been certified and finishing a calling when a voice command for a calling refusal has been certified.

15 22. The method of claim 21, wherein the step of certifying whether a calling is allowable comprises:

voice-guiding an originating party's name and certifying whether a calling is allowable when originating party's information has been searched; and

20 voice-guiding originating party's telephone number and certifying whether a calling is allowable when the originating party's information has not been searched.